



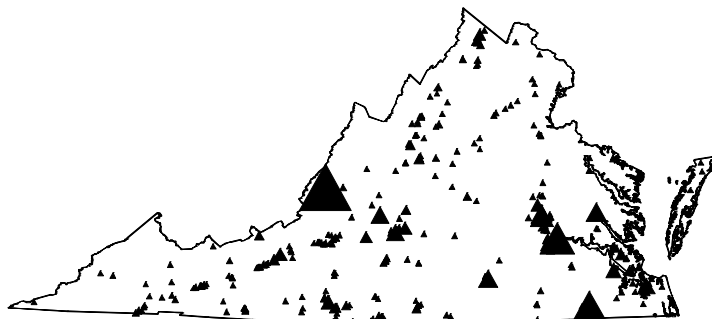
# 1997 TOXICS RELEASE INVENTORY

# VIRGINIA

## State/TRI Data

Population	6,737,489
Square Miles	39,598
Total Facilities	424
Total Forms	1,392
Form As	179

<b>National Rank for Total On- and Off-site Releases</b> (includes transfers out-of-state for disposal)	
Rank	18
Pounds	57,928,069
<b>National Rank for Total On-site Releases</b> (includes quantities released at the facility; excludes quantities transferred to other sites for disposal)	
Rank	16
Pounds	52,379,816
<b>National Rank for Total Releases within State</b> (excludes transfers out-of-state for disposal)	
Rank	16
Pounds	55,186,921
<b>National Rank for Production-related Waste Managed</b>	
Rank	15
Pounds	632,477,820



The largest triangle appearing in the state map represents the largest facility for on-site releases in the state of Virginia. All triangles are proportionally-sized to represent the amounts of releases at each facility within this state.

## Reported Releases and Waste Management Activities

	Pounds
On-site Releases	52,379,816
Air Emissions	47,301,315
Surface Water Discharges	3,859,721
Underground Injection Class I Wells**	0
Underground Injection Class II-V Wells	0
On-site Land Releases to RCRA Subtitle C Landfills	124,390
Other On-site Land Releases	1,094,390
Off-site Releases (Transfers Off-site to Disposal)	5,548,253
<b>Total On- and Off-site Releases</b>	<b>57,928,069</b>
Recycled On-site	175,060,942
Recycled Off-site	19,598,037
Energy Recovery On-site	35,839,169
Energy Recovery Off-site	10,140,409
Treated On-site	311,234,341
Treated Off-site	22,099,062
Quantity Released On- and Off-site	58,508,860
(excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions)	
<b>Total Production-related Waste Managed</b>	<b>632,477,820</b>
<b>Total Non-production-related Waste Managed</b>	<b>93,220</b>

## Top Five Chemicals for Total Releases In State

CAS Number	Chemical	On-site Releases						Off-site Releases (Transfers Off-site to Disposal)			Total Releases in the State*
		<u>Underground Injection</u>				<u>On-site Releases to Land</u>		Transferred Into State	Transferred Within State	Transferred Out of State	
		Air	Surface	Class I	Class II-V	RCRA	Other				
		Emissions	Water Discharges	Wells**	Wells	Subtitle C Landfills	On-site Land Releases				
		Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
67-56-1	Methanol	13,290,391	85,529	0	0	0	19,733	0	35,004	183	13,430,657
7664-41-7	Ammonia	6,065,132	154,450	0	0	0	7,783	250	13,057	424	6,240,672
108-88-3	Toluene	5,191,139	1,020	0	0	0	0	0	48	10	5,192,207
7647-01-0	Hydrochloric acid	4,065,136	0	0	0	0	0	0	0	0	4,065,136
	Nitrate compounds	250	3,483,053	0	0	0	0	5	3,356	186	3,486,664

\*The chemical ranking is based on the amounts in this column; these quantities exclude transfers out of state.

\*\*Because of an EPA data entry error for one facility, 51,817 pounds were incorrectly identified as underground injection to Class I wells in Virginia in 1997. This amount should have been entered as discharged to surface waters. This State Fact Sheet reflects the correct data. However, the error was discovered too late to be corrected throughout the main volume of the 1997 TRI Public Data Release.



# 1997 TOXICS RELEASE INVENTORY

# VIRGINIA

## Top Five Facilities for Total On-site Releases

Facility / City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>				<u>On-site Releases to Land</u>			Transferred Within State	Transferred Out of State
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases			
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds			
Westvaco Corp., Covington, Alleghany	4,826,545	83,145	0	0	0	165,636	5,075,326	0	0
Allied-Signal Inc., Hopewell, Hopewell City	2,997,703	187,515	0	0	0	0	3,185,218	17,300	93,240
Union Camp Corp., Franklin, Isle of Wight	2,725,608	100,396	0	0	0	0	2,826,004	1,072,685	0
Stone Container Corp., Hopewell, Hopewell City	1,983,315	0	0	0	0	0	1,983,315	454,830	0
Phillip Morris USA, Richmond, Richmond City	1,933,465	0	0	0	0	0	1,933,465	2,100	0

\*The facility ranking is based on the amounts in this column.

## Top Five Facilities for Total Quantity Released On-site and Off-site

Facility / City, County	Recycled On-site	Recycled Off-site	Energy Recovery On-site	Energy Recovery Off-site	Treated On-site	Treated Off-site	Quantity Released On- and Off-site*	Total Production-related Waste Managed	Total Non-Production-related Waste Managed
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Westvaco Corp., Covington, Alleghany	0	0	361,900	0	18,389,808	0	5,080,710	23,832,418	0
Union Camp Corp., Franklin, Isle of Wight	440,000	0	2,000,130	0	51,267,971	2,100	4,139,590	57,849,791	0
Allied-Signal Inc., Hopewell, Hopewell City**	5,266,400	1,800	688,270	0	6,834,005	2,846,255	3,202,486	18,839,216	0
Roanoke Electric Steel Corp., Roanoke, Roanoke	0	0	0	0	0	0	2,726,093	2,726,093	0
Stone Container Corp., Hopewell, Hopewell City	0	0	10,570	0	0	3,996,700	2,446,686	6,453,956	0

\* The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

\*\*Allied-Signal Inc. in Hopewell, Virginia, reported on-site treatment of 1,070,000 pounds of chlorine and 4,437,620 pounds of n-hexane in 1997. The facility has since revised these quantities to 107,000 pounds of chlorine and 546,290 pounds of n-hexane. This changes the facility's total for on-site treatment to 1,979,675 pounds and the facility's total production-related waste to 13,984,886 pounds. Facility rankings on this page are unaffected.

## For More Information...

**State Contact:**  
Dona Huang  
(804) 698-4489  
Fax (804) 698-4346

**EPA Regional Contact:**  
Bill Reilly  
(215) 814-2072  
Fax (215) 814-2101

**To obtain TRI data use assistance, call  
TRI User Support Service (TRI-US):**  
(202) 260-1531  
Fax (202) 401-2347